

WHAT IS CLAIMED IS:

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5 1. An image reading device, comprising:
stacking means for stacking a document;
reading means for reading an image of the
document;

separating means for separating the document
stacked on said stacking means sheet by sheet;

10 conveying means for conveying the document
separated by said separating means to said reading
means; and

discharging means for discharging the document to
the outside of the device, wherein

15 a device body is divided into an upper unit and a
lower unit, said upper unit is constituted to be
openable/closable to said lower unit, and said
separating means is disposed in either one of said
upper unit and said lower unit.

20 2. ~~The image reading device according to claim 1,~~
comprising a drive source for driving said separating
means and said conveying means, the drive source being
disposed in the unit different from the unit in which
said separating means is disposed.

25 3. The image reading device according to claim 2,
wherein said conveying means is disposed in the unit in
which said drive source is disposed.

4. The image reading device according to claim 1, wherein said separating means comprises a separating roller and a plate-like separating member.

5 5. The image reading device according to claim 1, comprising an upper guide member and a lower guide member which form a document conveying path, wherein said upper unit includes the upper guide member, and said lower unit includes the lower guide member.

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6. The image reading device according to claim 1, wherein said reading means comprises a hand scanner which is disposed in said lower unit and which is attachable to/detachable from the image reading device body.

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7. The image reading device according to claim 6, wherein said discharging means comprises a drive roller and a follower roller, said drive roller is disposed in the upper unit, and said follower roller is disposed in the hand scanner.

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8. An image reading device, comprising:
an operating unit openable/closable to a device body and having a guide member for guiding and conveying a document;
a reading unit having reading means disposed

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opposite to said guide member for reading an image of the document, and being attachable to/detachable from said device body; and

5 detecting means for detecting opening/closing of said operating unit or attachment/detachment of said reading unit to said device body, wherein

10 said detecting means comprises a sensor disposed in said operating unit, and an actuating member movably disposed in said operating unit and operated by said reading unit to turn on/off said sensor.

9. The image reading device according to claim 8, wherein said operating unit has an operating panel provided with a plurality of operating keys.

15 10. The image reading device according to claim 8, wherein said sensor comprises a photointerruptor.

20 11. The image reading device according to claim 8, wherein said reading means comprises an adhesion type image sensor.

25 12. The image reading device according to any one of claims 8 to 11, further comprising informing means for providing information when said detecting means detects that said reading unit is detached from the device body or that said operating unit is opened.

~~13. The image reading device according to claim 12, wherein said informing means comprises display means disposed in said operating unit.~~

5 14. The image reading device according to claim 12, wherein said informing means comprises a speaker disposed in the image reading device body.

10 15. The image reading device according to claim 12, further comprising recording means for recording the image on a sheet, wherein said informing means comprises said recording means.

15 16. An image reading device, comprising:
a recording section having recording means for recording an image on a sheet in accordance with image information;

20 a reading section having reading means for reading a document and separating means for separating the document sheet by sheet to feed the document to said reading means; and

 a device body to which said recording section and the reading section are attached, wherein

25 said separating means of said reading section is disposed above said recording means, and said separating section can open by rotating from a front side toward a rear side of said device body centering

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on a rotating shaft disposed on the rear side of said device body.

~~17. The image reading device according to claim~~

5 16, wherein said separating means has a guide member for guiding the document, and the guide member can rotate with said separating means centering on said rotating shaft.

10 18. The image reading device according to claim 17, wherein when said separating means is closed, said guide member covers a part of said recording means to form a document conveying path.

15 19. An image reading device, comprising:
a recording section having recording means for recording an image on a sheet in accordance with image information and a rolled sheet storage section for accommodating a rolled sheet to feed the sheet;
20 a reading section having reading means for reading a document and separating means for separating the document sheet by sheet to feed the document to said reading means; and
a device body to which said recording section and
25 the reading section are attached, wherein
said separating means of said reading section is disposed above said recording means, and said

~~separating section can open by rotating from a front side toward a rear side of said device body centering on a rotating shaft disposed on the rear side of said device body.~~

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20. The image reading device according to claim 19, wherein said separating means has a guide member for guiding the document, and the guide member can rotate with said separating means centering on said rotating shaft.

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21. The image reading device according to claim 20, wherein when said separating means is closed, said guide member covers a part of said recording means to form a document conveying path.

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22. An image reading device, comprising:
a device body having a document conveying path for conveying a document;

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a document reading section which has reading means attachable to/detachable from said device body for reading the conveyed document when mounted on said device body and for reading the document by manual operation when detached from said device body, and which can be mounted to said device body from above;

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a reading cover section openably/closably mounted to said device body on a top surface of the document

reading section, for holding said document reading section in said device body when closing the device body; and

5 positioning means for positioning the document reading section in a predetermined position when said document reading section is mounted to said device body, wherein

10 the positioning means comprises a plurality of first regulating members which can regulate positions of said document reading section in a document conveying direction and in a direction intersecting the document conveying direction and which are disposed in either one of said device body and said reading cover section; and a second regulating member for positioning
15 said document reading section in a vertical direction.

20 23. The image reading device according to claim 22, wherein said first regulating members have notch portions formed in corner portions of said document reading section, and a plurality of positioning ribs which abut on both wall faces of the notch portions and can determine the positions and which are disposed in said device body.

25 24. The image reading device according to claim 22, wherein said first regulating members have positioning holes disposed in said document reading

~~section, and a plurality of positioning bosses which~~
can be engaged with the positioning holes and which are
disposed in said reading cover section.

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25. The image reading device according to any one
of claims 22 to 24, wherein said second regulating
member is disposed in said reading cover section, and
has a conveying roller pressed by spring means so that
said document reading section is pressed into contact
with said device body, and a lock mechanism for locking
said reading cover section to said device body.

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26. The image reading device according to claim
23, wherein said positioning rib have inclined faces in
two directions so as to guide the notch portions of
said document reading section.

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~~27. The image reading device according to claim~~
22, wherein said reading cover section comprises an
~~operation key for operating the reading device body.~~

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